

buuctf——pyre

原创

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1得到.pyc文件.

反编译pyc文件，首先要下载uncompyle（打开cmd输入命令：pip install uncompyle）

```
C:\Users\BY>pip install uncompyle
Collecting uncompyle
  Downloading uncompyle-2.0.0-py2.py3-none-any.whl (2.2 kB)
Collecting uncompyle6
  Using cached uncompyle6-3.7.4-py3-none-any.whl (316 kB)
Collecting spark-parser<1.9.0, >=1.8.9
  Using cached spark_parser-1.8.9-py3-none-any.whl (17 kB)
Collecting xdis<5.1.0, >=5.0.4
  Using cached xdis-5.0.9-py2.py3-none-any.whl (129 kB)
Collecting click
  Downloading click-8.0.1-py3-none-any.whl (97 kB)
  97 kB 44 kB/s
Collecting six>=1.10.0
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting colorama
  Downloading colorama-0.4.4-py2.py3-none-any.whl (16 kB)
Installing collected packages: colorama, six, click, xdis, spark-parser, uncompyle6, uncompyle
Successfully installed click-8.0.1 colorama-0.4.4 six-1.16.0 spark-parser-1.8.9 uncompyle-2.0.0 uncompyle6-3.7.4 xdis-5.0.9
C:\Users\BY>
```

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在cmd窗口输入命令:uncompyle6 文件名.pyc>文件名.py.(要在pyc文件所在目录)

注：必须是python2.7-3.8.

```
C:\Users\BY\Desktop\pyre>uncompyle6 attachment.pyc>a.py
C:\Users\BY\Desktop\pyre>
```

2.打开py文件，分析代码。

异或运算，直接逆推。

```
print 'Welcome to Re World!'
print 'Your input is your flag~'
l = len(input1)
for i in range(l):
    num = ((input1[i] + i) % 128 + 128) % 128
    code += num

for i in range(l - 1):
    code[i] = code[i] ^ code[(i + 1)]

print code
code = ['\x1f', '\x12', '\x1d', '(', '0', '4', '\x01', '\x06', '\x14', '4', ',', '\x1b', 'U', '?', 'o', '6', '*', ':', '\x01', 'D', '\x13', '\x13']
# okay decompiling attachment.pyc
```

3.上脚本

```
code = ['\xf', '\x12', '\x1d', '(', '0', '4', '\x01', '\x06', '\x14', '4',  
, '\x1b', 'U', '?', 'o', '6', '*', ':', '\x01', 'D', ':', '%', '\x13']  
l=len(code)  
flag=''  
for i in range(1-2):  
    code[1-2-i]=chr(ord(code[1-2-i])^ord(code[1-1-i]))  
for i in range(1-1):  
    flag=flag+chr((ord(code[i])-i)%128)  
print(flag)
```

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4.get flag

flag{Just_Re_1s_Ha66y!}